

Client: GAI Consultants, Inc.
 Project ID: GAIC1603
 Client Sample ID: Possum Point Power Station Outfall 010
 Permit No: VA0002071
 Sample Period: 2/8/16



Report of Analysis: Whole Effluent Toxicity (WET)

Submitted To: Mr. John D. DeBarbieri, PE Senior Project Engineer GAI Consultants, Inc. 385 East Waterfront Drive, Homestead, PA 15120-5005 412-399-5212 J.DeBarbieri@gaiconsultants.com	Prepared By: Coastal Bioanalysts, Inc. 6400 Enterprise Court Gloucester, VA 23061 (804) 694-8285 www.coastalbio.com Contact: Peter F. De Lisle, Technical Director
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Acute Test Results* -Untreated Sample				
Species-Test Method	48-h LC50	95% C.L.	T.U. _{Ac}	NOAEC
<i>C. dubia</i> EPA 2002.0	>100	N/A	1.00	100
<i>P. promelas</i> EPA 2000.0	>100	N/A	1.00	100

Acute Test Results* -UV Irradiated Sample				
Species-Test Method	48-h LC50	95% C.L.	T.U. _{Ac}	NOAEC
<i>C. dubia</i> EPA 2002.0	>100	N/A	1.00	100
<i>P. promelas</i> EPA 2000.0	>100	N/A	1.00	100

For each test method record the T.U._{Ac} value (bold) on the DMR.

*Details regarding test conduct and data analysis provided in attached bench sheets and printouts.

Acute Test QA/QC		Reference Toxicant: KCl Units: mg/l		Test Organism Source: CBI Stock Cultures	
Species-Method (Ref. Test Date)	Data Source	% Control Survival	48-h LC50	95% C.L./A.L. For LC50	RTT in Control?
<i>C. dubia</i> 2002.0 (2/10/16-2/12/16)	RTT	100	482	446-522	Yes
	CC	100	562	461-663	
<i>P. promelas</i> 2000.0 (2/10/16-2/12/16)	RTT	100	1171	1115-1230	Yes
	CC	100	1026	875-1177	

Note: RTT = Reference Toxicant Test, CC = Control Chart.

The results of analysis contained within this report relate only to the sample as received in the laboratory. This report shall not be reproduced except in full without written approval from the laboratory. Unless noted below, these test results meet all requirements of NELAP.

APPROVED:


 Peter F. De Lisle, Ph.D.
 Technical Director

2/17/16
 Date

Deviations from, additions to, or exclusions from the test method, non-standard conditions or data qualifiers and, as appropriate, a statement of compliance/non-compliance: **NONE**





GLOSSARY OF TERMS AND ABBREVIATIONS

A.L. (Acceptance Limits): The results of a given reference toxicant test are compared to the control chart mean value ± 2 standard deviations. These limits approximate the 95% probability limits for the “true” reference toxicant value.

Chronic Value (ChrV): The geometric mean of the NOEC and LOEC. Units are same as test concentration units.

C.L. (Confidence Limits): These are the probability limits, based on the data set and statistical model employed, that the “true value” lies within the limits specified. Typically limits are based on 95% or 99% probabilities.

Control chart: A cumulative summary chart of results from QC tests with reference toxicants. The results of a given reference toxicant test are compared to the control chart mean value and 95% Acceptance Limits (A.L.) (mean ± 2 standard deviations).

IC25: The concentration of sample or chemical, calculated from the data set using statistical models, causing a 25% reduction in test organism growth, reproduction, etc. The lower the IC25, the more toxic the chemical or sample. Units are same as test concentration units.

LC50: The concentration of sample or chemical, calculated from the data set using statistical models, causing a 50% reduction in test organism survival. The lower the LC50, the more toxic the chemical or sample. Units are same as test concentration units. Note: The LC50 value must always be associated with the duration of exposure. Thus 48-h LC50, 96-h LC50, etc. are calculated.

LOEC: Lowest-observable-effect-concentration. The lowest concentration of sample or chemical in a chronic test dilution series in which the test organisms exhibit a statistically significant reduction in any of the test end points (e.g. growth, survival, reproduction) compared to control organisms. Units are same as test concentration units.

PMSD: Percent Minimum Significant Difference: The minimum difference which can exist between a test treatment and the controls in a particular test and be statistically significant; a measure of test sensitivity. The lower the PMSD the more sensitive the test.

N/A: Not applicable.

N/D: Not determined or measured.

NOAEC: No-observable-acute-effect-concentration. The highest concentration of sample or chemical in an acute test dilution series in which the test organisms exhibit no statistically significant reduction in the test end point (e.g. survival) compared to control organisms. Units are same as test concentration units.

NOEC: No-observable-effect-concentration. The highest concentration of sample or chemical in a chronic test dilution series in which the test organisms exhibit no statistically significant reduction in any of the test end points (e.g. growth, survival, reproduction) compared to control organisms. Some regulatory definitions also require that the NOEC be less than the LOEC. Units are same as test concentration units.

Q.L.: Quantitation Limit. Level, concentration, or quantity of a target variable (analyte) that can be reported at a specified degree of confidence.

T.U.: Toxic units. Expresses the relative toxicity of an effluent in such a manner that the larger the toxic unit value the more toxic the effluent. $T.U._{Ac} = 100/LC50$. $T.U._{Chr} = 100/NOEC$. A dimensionless unit.



C. dubia daily biological measurements (EPA 2002.0) Template ACD-STAT-NOAEC2-061113

TRTMNT (% Effl)		Rep	#Live Day 0	#Live Day 1	#Live Day 2	Final Mean % Live				
C	A	5	5	5	100.0					
	B	5	5	5						
Lab	C	5	5	5						
Control	D	5	5	5						
X	A	5	5	5	100.0					
100	B	5	5	5						
% Effl	C	5	5	5					Test Duration:	47h 58m
	D	5	5	5						TAC 48+/-0.5h
INITIALS:		GB	RCD	RCD	% CONTROL SURVIVAL:		100.0			
DATE & TIME:		2/9/16 15:58	2/10/16 9:19	2/11/16 15:57			TAC = 90%			
CHANGES & NOTES (INITIALS, DATE, SPECIFIC CHANGE MADE)										
		SPECIES:	Ceriodaphnia dubia							
		ACCLIMATION WATER:	Mod. Hard Synthetic Freshwater							
		FEEDING PRIOR TO TEST:	YCT + Selenastrum capricornutum							
		FEEDING DURING TEST:	None -YCT + Selenastrum 2+ h before test							
		SOURCE:		CBI Stock cultures						
		ACCLIMATION TEMP (o C):	25							
		BROOD RELEASE START DATE & TIME:	2/8/16 21:00							
		BROOD RELEASE END DATE & TIME:	2/9/16 10:00							
		DATE/TIME WATER ADDED:	2/9/16 15:30							
		DATE/TIME ANIMALS ADDED:	2/9/16 15:58							
		ANIMAL AGE WINDOW:	13h 0m							
		MAX AGE AT TEST START:	18h 59m			TAC Max. 24 h				
		TEST SET UP BY:		GB						
		SAMPLE COLLECTION DATE &TIME:	2/8/16 11:00	SAMPLE USED	A					
TEST ID:		SAMPLE AGE AT TEST START:	28h 59m	TAC Max 36 h						
GAIC1603ACD		PEER REVIEW BY (INITIALS/DATE):		PB	2/16/16 11:45					

Ceriodaphnia daily water quality bench sheet (EPA METHOD 2002.0) Template ACD-STAT-NOAEC2-061113

		Day 0 Initial	Day 1	Day 2 Final	SUMMARY WATER QUALITY DATA			
	TRTMNT				MEAN	S.D.	MIN.	MAX.
pH (S.U.)	C	7.93	7.97	8.06	7.99	0.07	7.93	8.06
	X	7.39	7.49	7.96	7.61	0.30	7.39	7.96
Temp. (o C)	C	25	24	24	24	0.6	24	25
	X	25	24	24	24	0.6	24	25
D.O. (mg/l)	C	8.2	7.7	7.9	7.9	0.3	7.7	8.2
	X	8.2	7.7	8.1	8.0	0.3	7.7	8.2
Cond. (uS/cm)	C	292		296	294	2.8	292	296
	X	333		324	329	6.4	324	333
Replicate measured		Flask	Surrogate	A				
Initials		GB	RCD	RCD				
		TRC (mg/l) in highest conc. at end of test:		N/A				
Changes & Notes (Initials, date, specific change or notes)								
TEST ID	Test chamber:		30 ml glass vial:		<input checked="" type="checkbox"/>			
			Other:					
	Test solution vol. (15 ml min):		15 ml:		<input checked="" type="checkbox"/>			
			Other (ml):					
	Illumination & photoperiod:		50-100 ft-c 16L:8D		Template Number:		2	
			Number of replicates/treatment:		4			
			Initial number animals/replicate:		5			
			Test Aerated?		N/A		Date & Time Air Start: N/A	
	TRT ID:		C	X				
	CONC(%):		Control	100				

C. dubia daily biological measurements (EPA 2002.0) Template ACD-STAT-NOAEC2-061113

TRTMNT (% Effl)	Rep	#Live Day 0	#Live Day 1	#Live Day 2	Final Mean % Live		
C	A	5	5	5	100.0		
	B	5	5	5			
Lab	C	5	5	5			
Control	D	5	5	5			
X	A	5	5	5	100.0	Test Duration: 48h 8m TAC 48+/-0.5h	
100	B	5	5	5			
% Effl	C	5	5	5			
	D	5	5	5			
INITIALS:		GB	RCD	RCD	% CONTROL SURVIVAL:		100.0
DATE & TIME:		2/9/16 15:49	2/10/16 9:21	2/11/16 15:58			TAC = 90%
CHANGES & NOTES (INITIALS, DATE, SPECIFIC CHANGE MADE)		SAMPLE AND CONTROL WATER UV TREATED AT 8 WATTS/20 min/liter					
		SPECIES:		Ceriodaphnia dubia			
		ACCLIMATION WATER:		Mod. Hard Synthetic Freshwater			
		FEEDING PRIOR TO TEST:		YCT + Selenastrum capricornutum			
		FEEDING DURING TEST:		None -YCT + Selenastrum 2+ h before test			
		SOURCE:		CBI Stock cultures			
		ACCLIMATION TEMP (o C):		25			
		BROOD RELEASE START DATE & TIME:		2/8/16 21:00			
		BROOD RELEASE END DATE & TIME:		2/9/16 10:00			
		DATE/TIME WATER ADDED:		2/9/16 15:38			
		DATE/TIME ANIMALS ADDED:		2/9/16 15:49			
		ANIMAL AGE WINDOW:		13h 0m			
		MAX AGE AT TEST START:		18h 50m		TAC Max. 24 h	
		TEST SET UP BY:		GB			
		SAMPLE COLLECTION DATE & TIME:		2/8/16 11:00		SAMPLE USED A	
TEST ID:		SAMPLE AGE AT TEST START:		28h 50m		TAC Max 36 h	
GAIC1603ACDUV		PEER REVIEW BY (INITIALS/DATE):				PB 2/16/16 11:46	

Ceriodaphnia daily water quality bench sheet (EPA METHOD 2002.0) Template ACD-STAT-NOAEC2-061113

		Day 0 Initial	Day 1	Day 2 Final	SUMMARY WATER QUALITY DATA			
	TRTMNT				MEAN	S.D.	MIN.	MAX.
pH (S.U.)	C	8.05	7.95	8.02	8.01	0.05	7.95	8.05
	X	7.43	7.52	7.65	7.53	0.11	7.43	7.65
Temp. (o C)	C	25	24	24	24	0.6	24	25
	X	25	24	24	24	0.6	24	25
D.O. (mg/l)	C	8.2	7.8	8.0	8.0	0.2	7.8	8.2
	X	8.2	7.9	8.0	8.0	0.2	7.9	8.2
Cond. (uS/cm)	C	291		291	291	0.0	291	291
	X	335		324	330	7.8	324	335
Replicate measured		Flask	Surrogate	B				
Initials		GB	RCD	RCD				
		TRC (mg/l) in highest conc. at end of test:		N/A				
Changes & Notes (Initials, date, specific change or notes)								
TEST ID	Test chamber:		30 ml glass vial:		<input checked="" type="checkbox"/>			
			Other:					
	Test solution vol. (15 ml min):		15 ml:		<input checked="" type="checkbox"/>			
			Other (ml):					
	Illumination & photoperiod:		50-100 ft-c 16L:8D		Template Number:		1	
			Number of replicates/treatment:		4			
			Initial number animals/replicate:		5			
			Test Aerated?		N/A		Date & Time Air Start: N/A	
	TRT ID:		C	X				
	CONC(%):		Control	100				

P. promelas daily biological measurements (EPA 2000.0) Template version APP-STAT-48h-NOAEC2-061313

TRTMNT (%Effl)	Rep	#Live Day 0	#Live Day 1	#Live Day 2	Final Mean % Live			
	A	5	5	5	100.0			
C	B	5	5	5				
Lab Control	C	5	5	5				
	D	5	5	5				
	A	5	5	5	100.0			
X	B	5	5	5				
100	C	5	5	5				
	D	5	5	5				
INITIALS:		GB	RCD	RCD	% CONTROL SURVIVAL:	100.0		
DATE & TIME:		2/9/16 16:02	2/10/16 9:15	2/11/16 15:54		TAC = 90%		
CHANGES & NOTES (INITIALS, DATE, SPECIFIC CHANGE MADE)								
		SPECIES: Pimephales promelas						
		ACCLIMATION WATER:			Mod. Hard Synthetic Freshwater			
		FEEDING PRIOR TO TEST:			Artemia nauplii ad libitum			
		FEEDING DURING TEST:			None			
		SOURCE:			CBI Stock cultures			
		ACCLIMATION TEMP (o C):			25			
		HATCH START DATE & TIME:			1/27/16 17:00			
		HATCH END DATE & TIME:			1/28/16 11:40			
		DATE/TIME WATER ADDED:			2/9/16 15:30			
		DATE/TIME ANIMALS ADDED:			2/9/16 16:02			
		ANIMAL AGE WINDOW:			18h 40m		TAC Max. 24 h	
		MAX AGE AT TEST START:			13d		TAC Max. 14 d	
		TEST SET UP BY:			GB			
		SAMPLE COLLECTION DATE & TIME:			2/8/16 11:00		SAMPLE USED A	
TEST ID:		SAMPLE AGE AT TEST START:			29h 2m		TAC MAX 36 h	
GAIC1603APP		PEER REVIEW BY (INITIALS/DATE):					PB 2/16/16 11:47	

P. promelas daily water quality sheet (EPA METHOD 2002.0) Template version APP-STAT-48h-NOAEC2-061313

		Day 0 Initial	Day 1	Day 2 Final	SUMMARY WATER QUALITY DATA			
	TRTMNT				MEAN	S.D.	MIN.	MAX.
pH (S.U.)	C	7.93	7.78	7.80	7.84	0.08	7.78	7.93
	X	7.39	7.38	7.43	7.40	0.03	7.38	7.43
Temp. (o C)	C	25	24	24	24	0.6	24	25
	X	25	24	24	24	0.6	24	25
D.O. (mg/l)	C	8.2	7.5	6.8	7.5	0.7	6.8	8.2
	X	8.2	7.6	6.8	7.5	0.7	6.8	8.2
Cond. (uS/cm)	C	292		303	298	7.8	292	303
	X	333		329	331	2.8	329	333
Replicate measured		B	A	D				
Initials		GB	RCD	GB				
		TRC (mg/l) in highest conc. at end of test:						
Changes & Notes (Initials, date, specific change or notes)								
TEST ID	Test chamber:		400 ml Tri-pour bkr:		<input checked="" type="checkbox"/>			
			Other:					
	Test solution vol. (200 ml min):		400 ml:		<input type="checkbox"/>			
			Other (ml):		200 ml			
	Illumination & photoperiod:		50-100 ft-c 16L:8D					
			Number of replicates/treatment:		4			
			Initial number animals/replicate:		5			
			Test Aerated?		No	Date & Time Air Start:		
	TRT ID:		C	X		D.O. Highest conc. @ aeration:		
	CONC (%):		Control	100		Total live highest conc.@ aeration		

P. promelas daily biological measurements (EPA 2000.0) Template version APP-STAT-48h-NOAEC2-061313

TRTMNT (%Effl)	Rep	#Live Day 0	#Live Day 1	#Live Day 2	Final Mean % Live			
	A	5	5	5	100.0			
C	B	5	5	5				
Lab Control	C	5	5	5				
	D	5	5	5				
	A	5	5	5	100.0			
X	B	5	5	5				
100	C	5	5	5				
	D	5	5	5				
INITIALS:		GB	RCD	RCD	% CONTROL SURVIVAL:	100.0		
DATE & TIME:		2/9/16 15:55	2/10/16 9:17	2/11/16 15:55		TAC = 90%		
CHANGES & NOTES (INITIALS, DATE, SPECIFIC CHANGE MADE)		SAMPLE AND CONTROL WATER UV TREATED AT 8 WATTS/20 min/liter						
		SPECIES:					Pimephales promelas	
		ACCLIMATION WATER:			Mod. Hard Synthetic Freshwater			
		FEEDING PRIOR TO TEST:			Artemia nauplii ad libitum			
		FEEDING DURING TEST:			None			
		SOURCE:			CBI Stock cultures			
		ACCLIMATION TEMP (o C):			25			
		HATCH START DATE & TIME:			1/27/16 17:00			
		HATCH END DATE & TIME:			1/28/16 11:40			
		DATE/TIME WATER ADDED:			2/9/16 15:38			
		DATE/TIME ANIMALS ADDED:			2/9/16 15:55			
		ANIMAL AGE WINDOW:			18h 40m			TAC Max. 24 h
		MAX AGE AT TEST START:			13d			TAC Max. 14 d
		TEST SET UP BY:			GB			
		SAMPLE COLLECTION DATE & TIME:			2/8/16 11:00		SAMPLE USED	A
TEST ID:		SAMPLE AGE AT TEST START:			28h 56m		TAC MAX 36 h	
GAIC1603APPUV		PEER REVIEW BY (INITIALS/DATE):					PB	2/16/16 11:48

P. promelas daily water quality sheet (EPA METHOD 2002.0) Template version APP-STAT-48h-NOAEC2-061313

		Day 0 Initial	Day 1	Day 2 Final	SUMMARY WATER QUALITY DATA				
	TRTMNT				MEAN	S.D.	MIN.	MAX.	
pH (S.U.)	C	8.05	7.76	7.57	7.79	0.24	7.57	8.05	
	X	7.43	7.41	7.33	7.39	0.05	7.33	7.43	
Temp. (o C)	C	25	24	24	24	0.6	24	25	
	X	25	24	24	24	0.6	24	25	
D.O. (mg/l)	C	8.2	7.7	6.9	7.6	0.7	6.9	8.2	
	X	8.2	7.8	6.7	7.6	0.8	6.7	8.2	
Cond. (uS/cm)	C	291		304	298	9.2	291	304	
	X	335		330	333	3.5	330	335	
Replicate measured		B	D	C					
Initials		GB	RCD	GB					
		TRC (mg/l) in highest conc. at end of test:							N/A
Changes & Notes (Initials, date, specific change or notes)									
TEST ID	Test chamber:		400 ml Tri-pour bkr:		<input checked="" type="checkbox"/>				
			Other:						
	Test solution vol. (200 ml min):		400 ml:		<input type="checkbox"/>				
			Other (ml):		200 ml				
	Illumination & photoperiod:		50-100 ft-c 16L:8D						
			Number of replicates/treatment:		4				
			Initial number animals/replicate:		5				
			Test Aerated?		No		Date & Time Air Start:		
	TRT ID:		C	X				D.O. Highest conc. @ aeration:	
	GAIC1603APPUV		CONC (%):	Control	100			Total live highest conc.@ aeration	

Effluent and Dilution Water Log (Freshwater Tests). FWEFFL061013											SUMMARY WATER QUALITY DATA				
Initial sample charac-terization	Bottle(1):	A1									MEAN	S.D.	MIN.	MAX.	PARAMETER
	Arrival Temp. (oC, from CoC):	1									1		1	1	Arrival Temp.
	TRC (mg/l)(2):	<DL													
	TRC Corrected(2):	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>						
	Hardness (mg/l):	254									254		254	254	Hardness (mg/l)
	Alkalinity (mg/l):	26									26		26	26	Alkalinity (mg/l)
	NH3-N (mg/l):	<1.0													
	Color/Appearance(3):	C													
	Obvious odor?	NO													
	Date & Time:	2/8/16 15:15													
	Initials:	GB													
Sample prep measure-ments	Test Day:	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7		MEAN	S.D.	MIN.	MAX.	
	Bottle(s):	A1													
	Prep. Temp. (oC):	25									25		25	25	Temp. (oC)
	D.O. (mg/l) After Warming:	11.7													
	Aeration Time (min):	2.5													
	Adjusted D.O. (mg/l):	8.2									8.2		8.2	8.2	D.O. (mg/l)
	Final pH (S.U.):	7.20									7.20		7.20	7.20	pH (S.U.)
	Conductivity (uS/cm)(4):	336									336		336	336	Cond. (uS/cm)
	Final TRC (mg/l)(5):	N.D.													
	Sample Filtered (60 um)?	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>					
	Date & Time:	2/9/16 14:57													
	Initials:	GB													
Dilution water	Test Day:	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7		MEAN	S.D.	MIN.	MAX.	
	Vat Number:	2													
	Temperature (oC):	25									25		25	25	Temp. (oC)
	Conductivity (uS/cm):	303									303		303	303	Cond. (uS/cm)
	D.O. (mg/l):	8.2									8.2		8.2	8.2	D.O. (mg/l)
	pH (S.U.):	8.10									8.10		8.10	8.10	pH (S.U.)
	Hardness (mg/l):	88									88		88	88	Hardness (mg/l)
	Alkalinity (mg/l):	58									58		58	58	Alkalinity (mg/l)
	Date & Time:	2/9/16 9:50													
	Initials:	BJA													
	Changes & Notes (Initials, date, specific change or notes)														
	Peer review Initial/Date:	PB	2/16/16 11:43	DILUTION WATER TYPE:	Mod. Hard Synthetic Freshwater (EPA)	ND=Not Determined/Measured, NA=Not Applicable. 1) Ninth character of lab sample ID on chain of custody AND bottle number in collection series. Together with Project ID constitutes entire sample bottle ID. 2) TRC MDL 0.02 mg/l; QL 0.22 mg/l. Corrected value if Mn, Cr potential positive interference. Corrected using KI and NaAsO2. 3) C-clear, O-opaque, T-turbid, S-solids (Sl-slight, M-moderate, H-heavy), Y-yellow, B-brown, Bl-black, G-green, P-pink, Gr-grey, Or-orange. 4) Measured on first use of sample only. 5) Final TRC measured only if chlorine present in initial characterization.									
PROJECT ID:	GAIC1603	ADDITIONAL EFFLUENT TREATMENT:													



6400 Enterprise Court, Gloucester, VA 23061
PH: 804-694-8285, FAX: 804-695-1129
www.coastalbio.com

SAMPLE INFORMATION/CHAIN-OF-CUSTODY (FORM ETF2011I Rev. 8/7/13)

Lab Sample ID
(Lab Use Only)

G	A	I	C	1	6	0	3
A	A	A	A	Y	Y	N	N

Project ID

A
Spl

CBI
Login # 16-02/6

FACILITY INFORMATION

CLIENT/FACILITY NAME	GAI Consultants, Inc.			CONTACT & PHONE #	John DeBarbieri 412-399-5212
NPDES PERMIT NO				OUTFALL # OR LOCATION	Outfall 010 24-hr acute composite
SAMPLE CHLORINATED?	NO	SAMPLE DECHLORINATED?	NO	IF CHLORINE PRESENT UPON ARRIVAL AT LAB, DOES PERMIT SPECIFY DECHLORINATION OF SAMPLES?	
TESTS REQUESTED:	SPECIES OR EPA METH # C. DUBIA 100% NOAEL		ACUTE <input checked="" type="checkbox"/> CHRONIC <input type="checkbox"/>		
OTHER TESTS:	SPECIES OR EPA METH # P. promelas		ACUTE <input checked="" type="checkbox"/> CHRONIC <input type="checkbox"/>		

A SPECIFIC DILUTION SERIES MAY BE REQUIRED IN THE PERMIT. A DEFAULT SERIES OF 100, 50, 25, 12.5 AND 6.3%, OR CONCENTRATIONS USED IN PRIOR TESTING, WILL BE USED UNLESS INDICATED OTHERWISE. IF IN DOUBT PLEASE ATTACH A COPY OF APPLICABLE PERMIT PAGES.

GRAB SAMPLE INFORMATION

SAMPLE DATE	SAMPLE TIME	SAMPLE VOLUME
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COMPOSITE SAMPLE INFORMATION

SAMPLE START DATE & TIME	2/7/16 1100 AM	SAMPLE END DATE & TIME	2/8/16 1100 AM	AUTOSAMPLER TEMP. (°C)	
TIME OR FLOW PROPORTIONAL COMPOSITE INFORMATION	NUMBER SUBSAMPLES 24	VOL (ml) SUBSAMPLES 5.3 fl oz.	TIME INCREMENT 1 hr.		
	SET VOLUME SUBSAMPLE	SET VOLUME FLOW	TOTAL VOLUME 1 Gallon		

FOR VARIABLE VOLUME SUBSAMPLES BASED ON FLOW (COMPOSITING "BY HAND") ATTACH SAMPLE AND FLOW INFORMATION ON SEPARATE SHEET

FIELD MEASUREMENTS

DISCHARGE TEMP (°C)	DISCHARGE pH (S.U.)	SAMPLE TEMP (°C)	SAMPLE pH (S.U.)	SAMPLE TRC (mg/l)	DATE/TIME (e.g. 02/23/00 1835)	INITIALS
		7.9	5.96		2/8/16 12:01 AM	AGM

MEASUREMENTS MUST BE TAKEN WITHIN 15 MINUTES OF SAMPLE OR LAST SUBSAMPLE COLLECTION.

COMMENTS:

↑
one minute after midnight,
monday 2/8/16 morning

(PRINTED NAME/AFFILIATION SAMPLER/ANALYST)

(SIGNATURE)

(DATE)

RELINQUISHED BY	DATE	TIME	RECEIVED BY
<i>[Signature]</i>	2/8/16	12:11 PM	<i>[Signature]</i>
<i>[Signature]</i>	2/8/16	3:05 PM	<i>[Signature]</i>

SHIPPING METHOD: UPS _____ FEDEX _____ HAND DELIVERY ☒

DO NOT SHIP FEDEX STANDARD OVERNIGHT
SAMPLES MUST ARRIVE AT LAB BY NOON.

CONDITION ON ARRIVAL: ACCEPTABLE ☒ OTHER _____

SAMPLE TEMP: (°C) 1 ARRIVED ON ICE? Y ☒ N _____ CUSTODY SEAL: INTACT ☒ BROKEN _____ ABSENT _____

NOTE: It is the responsibility of the sampler to insure that samples are properly collected, preserved (>0-6° C) and shipped. Sample hold time is 36 h. Additional costs may be incurred by improper preservation, shipping or receipt of samples after 3 p.m. or on weekends and holidays.